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(54) HEMOSTATIC AGENT

(57) Abstract

PURPOSE: To provide a hemostatic agent composed of a chitin sponge immobilized with a blood coagulant and having specific wet strength.

CONSTITUTION: A hemostatic agent having a wet strength of $\approx 1\text{g/mm}^2$ can be produced by immobilizing a blood coagulant (e.g. fibrinogen, prothrombin, etc.) to a spongy chitin {poly(N-acetyl-D-glucosamine) or its derivative {e.g. [N-acetyl-6-O-(2'-hydroxyethyl)-D-glucosamine],

poly[N-acetyl-6-O-(ethyl)-D-glucosamine], etc. produced by treating the exoskeleton, etc., of crustacean or insect with hydrochloric acid and then with sodium hydroxide and separating and purifying the produced protein and calcium component}. When the wet strength is lower than 1g/mm^2 , sufficient hemostatic function cannot be attained. The agent can be applied effectively for stopping the bleeding caused by lesion, bleeding during or after operation, bleeding from the superior digestive tract and other bleeding from a part which is difficult to be ligated.

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